

# APPARATUS FOR PUMPING FUEL FROM A TANK TO AN INTERNAL COMBUSTION ENGINE, AND METHOD FOR PRESSURE DETECTION

## Abstract

Known apparatuses have a feed pump, a pressure line leading from the feed pump to the internal combustion engine, a check valve, and a pressure sensor connected to the pressure line. The pressure line is provided on a so-called fuel distributor and detects the pressure in the fuel distributor and in the pressure line. For a so-called tank leak diagnosis, one additional pressure sensor in the tank is necessary.

The apparatus according to the invention is simplified because only a single pressure sensor is provided for the pressure change in the pressure line and in the tank.

According to the invention, it is proposed that the pressure sensor (23) is operatively connected to the pressure line (8) downstream of the feed pump (3) and upstream of the check valve (16), and the measurement signal of the pressure sensor (23) is used as a controlled variable for regulating the feed pump (3) and/or for a leak diagnosis in the pressure line (8) and/or for a tank leak diagnosis.